

8-1-1963

Graduate Bulletin, 1963-1964

Eastern Kentucky State College

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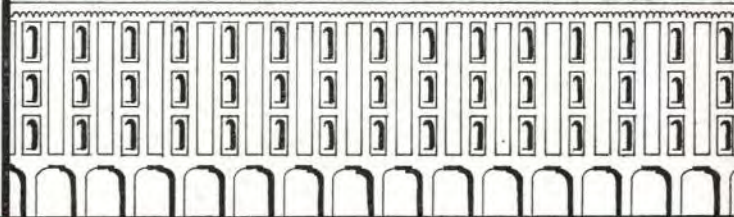
Eastern Kentucky State College, "Graduate Bulletin, 1963-1964" (1963). *Graduate Catalog*. Book 8.
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GRADUATE

BULLETIN

1963-64



EASTERN KENTUCKY STATE COLLEGE
Richmond, Kentucky



EASTERN KENTUCKY STATE COLLEGE

Graduate Bulletin

1963-64



PUBLISHED SEVEN TIMES A YEAR BY THE EASTERN KENTUCKY STATE COLLEGE in January, February, March, April, July, August, and November, and entered at the Post Office in Richmond, Kentucky, as second-class matter.

EASTERN KENTUCKY STATE COLLEGE

General Admission



For further information, contact the Registrar's Office.
1960

MEMBER OF

**Kentucky Association of Colleges, Secondary and Elementary
Schools**

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

National Business Teacher Training Institutions

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

ACCREDITED BY

Southern Association of Colleges and Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

1963 — CALENDAR — 1964

FIRST SEMESTER

September 14	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
September 16	Monday	8:30 a.m.	Classification tests for first semester freshmen.
September 17	Tuesday	8:30 a.m.	Classification tests for first semester freshmen.
September 18	Wednesday	7:30 a.m.	Registration of freshmen.
September 19	Thursday	7:30 a.m.	Registration of sophomores.
September 20	Friday	7:30 a.m.	Registration of juniors and seniors.
September 21	Saturday	8:00 a.m.	Registration of graduate students.
September 23	Monday	8:00 a.m.	Classes begin.
September 30	Monday		Last day to enter a course for credit with reduced load.
October 21	Monday		Last day on which a course may be dropped without a grade.
November 25	Monday	10:00 a.m.	Mid-semester reports to Registrar.
November 27	Wednesday	Noon	School closes for Thanksgiving holiday.
December 2	Monday	8:00 a.m.	Class work resumes.
December 19	Thursday	Noon	Christmas holiday begins.
January 2	Thursday	8:00 a.m.	Class work resumes.
January 28	Tuesday	5:00 p.m.	First semester closes.
January 30	Thursday	9:00 a.m.	Grades to Registrar.

SECOND SEMESTER

February 3	Monday	7:30 a.m.	Registration of freshmen and sophomores.
February 4	Tuesday	7:30 a.m.	Registration of juniors, seniors, and graduate students.
February 5	Wednesday	8:00 a.m.	Classes begin.
February 8	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
February 11	Tuesday		Last day to enter a class for credit with reduced load.
March 4	Wednesday		Last day on which a course may be dropped without a grade.
April 3	Friday	9:00 a.m.	Mid-semester reports to Registrar.
April 6-11			Spring vacation.
May 31	Sunday		Baccalaureate service.
June 3	Wednesday	10:00 a.m.	Commencement.
June 5	Friday	5:00 p.m.	Second semester closes.

SUMMER SCHOOL—1964

June 15	Monday	8:00 a.m.	Summer school begins.
June 16	Tuesday		Classes begin.
June 16	Tuesday		Last day to register for a full load.
June 18	Thursday		Last day to enter a course for credit with reduced load.
August 6	Thursday	7:30 p.m.	Commencement.
August 7	Friday	5:00 p.m.	Summer school closes.

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THE ADMINISTRATION

ROBERT R. MARTIN, A. B., M. A., Ed. D.....	President
JOHN L. VICKERS, B. S., M. A.	Executive Assistant to the President
WILLIAM J. MOORE, A. B., M. A., Ph. D.....	Dean of College
J. C. POWELL, A. B., M. Ed.	Dean of Business Affairs
G. M. BROCK	Comptroller
HENRY G. MARTIN, A. B., M. A., Ed. D.	Dean of Students
EVELYN A. BRADLEY, A. B., M. A.	Dean of Women
CHARLES F. AMBROSE, A. B., M. A., Ed. D.....	Dean of Admissions and Registrar
CLYDE L. ORR, B. S., M. S., Ed. D.....	Associate Dean of Instruction for Graduate Studies
J. DORLAND COATES, B. S., M. A., Ph. D.....	Associate Dean of In- struction for Teacher Education
DONALD R. FELTNER, B. S., M. A.....	Coordinator of Public Affairs

BOARD OF REGENTS

1963-64

WENDELL P. BUTLER

State Superintendent of Public Instruction, ex officio Chairman

EARLE B. COMBS, SR., Richmond, Kentucky

F. L. DUPREE, Harlan, Kentucky

SIDNEY W. CLAY, Louisville, Kentucky

SENATOR WILSON PALMER, Cynthiana, Kentucky

JUDGE THOMAS B. MCGREGOR, Frankfort, Kentucky

DR. RUSSELL I. TODD, Richmond, Kentucky

THE GRADUATE COUNCIL

Clyde L. Orr, Chairman	H. H. LaFuze (Biology)
Kerney M. Adams (Social Studies)	Smith Park (Mathematics)
Charles Ambrose (Dean of Ad- missions and Registrar)	Charles L. Ross (Educational Administration)
Margaret Ankeney (Education)	John D. Rowlett (Industrial Arts)
Dixon A. Barr (Education)	W. A. Sprague (Psychology)
D. T. Ferrell (Education)	Fred William Tanner (Elementary Education)
P. M. Grise (English)	Mildred I. Turney (Home Economics)
Thomas C. Herndon (Chemistry)	Joseph H. Young (Business)

The President of the College and the Dean of
the Faculty are ex-officio members of
all Committees.

GRADUATE ADVISORY COMMITTEE CHAIRMEN

Kerney M. Adams (Social Studies)	Clyde L. Orr (Principalship)
James G. Black (Physics)	Smith Park (Mathematics)
Fred E. Darling (Health and Physical Education)	John D. Rowlett (Industrial Arts)
D. T. Ferrell (Supervision)	W. A. Sprague (Guidance and Counseling)
Fred P. Giles (Art)	Fred William Tanner (Elementary Education)
P. M. Grise (English)	Mildred I. Turney (Home Economics)
L. G. Kannamer (Geography)	James E. Van Peursem (Music)
H. H. LaFuze (Biology)	Joseph H. Young (Business)
W. J. Moore (Superintendency)	

EASTERN . . . Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky State College is a coeducational public institution of higher education offering general and liberal arts programs, and professional training in education and other fields at the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, the campus embraces approximately 325 acres of gently-rolling bluegrass slopes. The main campus centers around a replica of an ancient Greek amphitheater seating 2,500 persons. The natural beauty of the area is enhanced by an abundance of trees and shrubs. The college is housed in 39 buildings, with further expansion under way.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles south-east of Lexington, Kentucky, Richmond is conveniently reached by automobile over U. S. Route 25 (Dixie Highway) from Northern Kentucky and Cincinnati to the North and from Southeastern Kentucky to the South. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky areas and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 and I-75, and the Eastern Kentucky Turnpike, will provide greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the college student.

In and around Richmond are many areas of historic and scenic interest. Boonesboro, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees. During this period of time, Eastern Kentucky State College has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the College today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas. Further, a graduate program leading to the Master of Arts degree in Education and an additional year's graduate work beyond the Master's degree is offered for those seeking additional training for positions in the field of education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its chief function as that of preparing excellent teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas, enable Eastern to serve the Commonwealth as a general college.

The College has a broad program on offerings in the field of Business Education with a curriculum offering thorough training in secretarial practice, accounting methods and materials, and general business.

PURPOSE

It is the purpose of Eastern Kentucky State College to provide for youth those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

With this worthy purpose as a basis, Eastern Kentucky State College has detailed its specific aims:

Eastern Kentucky State College has a historic mission in the training of teachers for the classrooms of America.

The purpose of the institution can be met only through a broad and liberal education of all students.

As Eastern Kentucky State College seeks to serve more adequately, it has developed sound curricula to provide instruction in general and specialized fields in order that students may be prepared for professional, technical, and industrial careers.

Eastern Kentucky State College seeks to serve the citizens of the state through the extension of aspects of the college program into other areas and communities. Extension and correspondence courses are offered as the need is evidenced. Lectures and consultant services are available upon request. Concert tours by the various organizations of the Music Department, art exhibits, and dramatic performances round out the cultural service of the institution.

Eastern Kentucky State College attempts to meet these purposes and aims through constant attention to see that the curriculum is such as to give students the basic concepts in their fields of knowledge and the special techniques needed for the mastery of their field. Eastern aspires to motivate each student through superior teaching and counseling, to the end that students will find at Eastern an intellectually-demanding college experience as well as opportunities for social development.

EXPENSES AND LIVING ACCOMMODATIONS

EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

Registration and Incidental Fees (Per Semester)	Kentucky Resident	Out-of-State Resident
Registration Fee		
Full-time	88.00	176.00
Part-time (Fewer than 11 semester hours), per hour.....	8.00	16.00
Health Fee—Full-time	3.00	3.00
Special Classroom Fee		
Full-time	4.50	4.50
Part-time	2.00	2.00
Activity Fee (Optional for Graduate Students)	5.00	5.00
College Yearbook (The Milestone) Payable once each academic year by full-time students	6.50	6.50
Registration and Incidental Fees (Summer Term)		
Registration Fee		
Full-time	44.00	88.00
Part-time (Fewer than 6 semester hours), per hour	8.00	16.00
Health Fee—Full-time	1.50	1.50
Activity Fee (Optional for Graduate Students)	2.50	2.50
Special Classroom Fee		
Full-time	2.25	2.25
Part-time	1.00	1.00
Other Fees		
Late Registration Fee (per day late).....		1.00
Voluntary change of schedule fee.....		1.00
Transcript Fee (other than the initial copy).....		1.00
Graduation Fee (includes cost of diploma, cap and gown rental, and other expenses incidental to graduation)		
Master of Arts degree		20.00
Post office box rent (for each dormitory resident).....		.75

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all athletic contests on the campus and to certain other programs sponsored by the College. It must be carried by the student at all times for official identification on the campus, and all full-time undergraduate students must have a valid card before registration is completed.

If the card is lost, it must be replaced. A replacement fee of \$5.00 is assessed. Application for replacement must be made at the office of the Dean of Students.

LIVING ACCOMMODATIONS

Eastern Kentucky State College maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are required to live in College facilities. When the capacity of the halls has been reached single students may secure lodging in privately-owned facilities, provided these facilities have been approved by the College. All students, whether living in College or private facilities, are subject to regulations and supervision of the College.

All rooms have single beds for which pillows and linens are furnished. The College bears the expense of having these sheets and pillow cases laundered. Each student is expected to provide his own blankets, towels, window drapes, and similar articles. Students will find it to their advantage to have their own study lamps.

Residence Halls for Women	Rent	
	Semester	Summer
Burnam	\$90.00	\$40.00
Case	90.00	40.00
Sullivan	90.00	40.00
McGregor	100.00	50.00

Residence Halls for Men		
Keith	90.00	40.00
Martin	90.00	40.00
Mattox	90.00	40.00
Miller, Beckham, and McCreary	90.00	40.00
O'Donnell	90.00	40.00
Combs	100.00	50.00

A few student bedrooms, located in the basements of various dormitories, are available at a reduced rate.

DORMITORY POLICIES

All students desiring housing at Eastern Kentucky State College should complete an application for a room reservation and forward it to the Dean of Students, Eastern Kentucky State College, Richmond, Kentucky.

An advance rental payment of \$45.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Room reservations must be claimed by midnight of the last day of registration. Those rooms not claimed by that day may be reassigned to other applicants.

Refunds of rent after a room is accepted shall be made only in exceptional instances. In no case shall a refund of rent be made to students moving from the College housing at their convenience.

Dormitory rent is paid by the semester and is due and payable at registration. Refunds, when authorized, shall be made on the following schedule, based on weeks of occupancy of the room. Semester: up to two weeks, 75%; two to four weeks, 50%; four to six weeks, 25%. After six weeks no refunds will be made. Summer term: one week, 75%; two weeks, 50%; three weeks, 25%. After three weeks no refunds will be made.

FOOD SERVICE

The College operates several food service facilities on the campus. Large, modern, air-conditioned cafeterias in the Johnson Student Union Building and Martin Hall serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, and Mattox Hall.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of \$200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky State College. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky State College, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Rachel Ogg Pee and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

The Presidential Scholarships are awarded annually by the President on the basis of high scholastic potential and need. These scholarships have an approximate value of \$65.00 per semester.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to students who have superior records in high school and college and who are majoring in Mathematics or Science or who are planning to prepare themselves to teach. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Chairman of the National Defense Student Loan Fund, Eastern Kentucky State College.

The Student Loan Fund of the Eastern Kentucky State College is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students. Those having high scholarship records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn a part of their expenses by working in the College Cafeteria, Library, Bookstore, Post Office, Dormitories, Administrative Offices, College Dairy and Farm, Maintenance Department, and Faculty Offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a greater number of hours. No student, however, should enter the College without sufficient money for the semester unless there is a definite guarantee of work to support him.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky State College is approved by the Veterans Administration for the education of veterans under the provision of Public Law 894, Public Law 634, and Public Law 550, Veterans Readjustment Act and the Korean GI Bill. Students concerned with veterans training should have, at the time of his registration, a certificate of eligibility. This is secured from the regional office of the Veterans Administration. The College is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved, and may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Division of Special Education, Frankfort, Kentucky, for specific instructions.

PLACEMENT OFFICE

The Placement Office is maintained by the College to assist students and alumni in obtaining positions in schools, businesses and industry. Each year, Superintendents, Principals, and other public school officials come to this office to secure qualified individuals to fill their vacancies. No charge is made for this service. Graduates of Eastern may leave pertinent information and records of recommendations in the office until such time as they will need it as a reference.

Department heads, professors, and citizens furnish great amounts of data which are filed in the Placement Office.

THE ALUMNI ASSOCIATION

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the College and the Alumni. Eastern now has nearly 11,000 graduates. Many of these men and women hold more than one degree from the College. All of them are eligible for membership in the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. Annual memberships are \$2.00 single and \$3.00 for joint membership (husband and wife). Life memberships are \$50.00 for single and \$75.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, K.E.A. breakfast in the spring and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 50 year and the 25 year classes and the presentation of the Outstanding Alumnus Award. In addition, active Alumni Clubs at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton area, and Pulaski County have numerous meetings throughout the year open to all alumni and former students in the area. Many more Eastern Alumni Clubs are expected to be installed during the 1963-64 school year.

The Eastern Alumni Association is a member of the Joint Alumni Council of Kentucky, an organization made up of the alumni of the six state-supported institutions: Eastern, Kentucky State, Morehead, Murray, Western and the University of Kentucky.

The *Eastern Alumnus*, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

The Alumni Office is conveniently located in the Administration Building where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.

THE GRADUATE DIVISION

PURPOSE

The Graduate Division presently offers work leading to the degree of Master of Arts in Education. This graduate program is planned to meet the needs of teachers in elementary and secondary schools and to provide graduate education for supervisors, principals, superintendents, attendance officers, counselors, guidance personnel, etc.

Eastern has recently been authorized to grant the Master of Arts and the Master of Science degrees in Academic fields. Plans are presently under way to implement programs for these degrees, but details will not be available until a later date.

TYPES OF STUDENTS

Graduate courses are open to: (1) students who enter and become candidates for the degree of Master of Arts in Education; and (2) students who wish to broaden their education without reference to a graduate degree.

ADMISSION REQUIREMENTS

1. Applicants for admission to the Graduate Division must hold a bachelor's degree from an institution of recognized standing.

2. Official credentials should be filed with the Registrar and with the Associate Dean in charge of Graduate Studies before entrance. These credentials must include, (a) a complete transcript of high school credits; (b) a complete transcript of college or university credits. If the transcript is not on file prior to entrance, admission will be tentative pending receipt and review of credentials.

3. Application for admission to the Graduate Division must be filed by a student with the Associate Dean in charge of Graduate Studies. Admission to the Graduate Division does not necessarily imply admission to candidacy for the degree of Master of Arts in Education.

Late Registration.—No one will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer term. Special consideration for registration beyond these periods of time may be requested from the Admissions Committee.

Withdrawal from the College.—Students who find it necessary to leave the College under any conditions must visit the Office of the Dean of Students and secure an official Withdrawal Card. This

card is then processed with appropriate personnel on the campus in order that all campus records may be cleared. Unless this procedure is followed, the permanent records in the Registrar's Office are incomplete. Thus, students receive grades of "F" for the semester's courses and would not be eligible for readmission.

Official Schedule Changes.—The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. A person may receive the degree of Master of Arts in Education when he has completed other requirements set out in these regulations and in addition thereto has completed a four-year curriculum for the education of elementary or secondary teachers as prescribed by the Council on Public Higher Education or holds a certificate based upon four years of standard college preparation and valid for teaching in the state in which it was issued.

2. The student shall have an average standing of 3.0 and no credit shall be granted for a grade below "C".

3. Graduate students may take upper division courses but at least 50 per cent of all course work must be in courses open to graduate students only.

4. Requirements for the degree of Master of Arts in Education may be satisfied by one of the following plans:

Plan I—With a Thesis

The residence requirements shall be 36 weeks. The minimum course credit shall be twenty-four semester hours.

Plan II—Without a Thesis

The residence requirements shall be 36 weeks. The minimum credit shall be 30 semester hours.

5. Every candidate for the degree of Master of Arts in Education shall present a minimum of 9 semester hours of graduate credit in professional education and must have had a minimum of 27 semester hours at the undergraduate level and/or graduate level.

The minimum time in which a student who does not have a minimum of 12 semester hours in education, upon being admitted to the graduate school, shall be 45 weeks to complete course requirements for the degree of Master of Arts in Education.

6. The remainder of the course work shall be determined by the institution in terms of the student's need, provided that it shall be upper division and/or graduate courses.

7. The student shall pass a final examination on all fields presented toward fulfillment of requirements for the degree of Master of Arts in Education.

8. Teachers holding what would ordinarily be considered a full-time position shall not be permitted to receive graduate credit for more than 4 semester hours during any semester.

9. Residence credit for part-time study at the graduate level shall be 1½ weeks for each semester hour of credit and shall apply to students who carry less than a minimum full-time load.

10. One-half of the course requirements and one-half of the residence work shall be done as a full-time graduate student. In evaluating residence credits a summer term of 8 weeks with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence.

11. The average graduate student, unless special approval is secured from the Dean, should take a load ranging from 12 to 16 hours per semester with a maximum of 8 hours per summer term of 8 weeks.

12. Part-time graduate students with full-time positions are advised to take loads ranging from 2 to 4 hours per semester and are expected to meet the high standards prescribed for full-time students.

13. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester of residence.

14. Those graduate students who plan to take the degree of Master of Arts in Education will be expected to take a comprehensive qualifying examination before they have proceeded very far with their graduate program. The results of this examination will be used as a basis for guidance.

15. The student should have a graduate committee appointed during the first semester or summer term that he is a student at Eastern. The chairman of his graduate committee will act as his advisor.

16. A student preparing for the secondary certificate must select a major field of interest in which he has at least a minor of eighteen hours. If he does not have a minor, he will be required to take work at the undergraduate level sufficient to make the minor.

17. The Master's degree shall not be granted to one who does not have at least thirty hours in his major field, including both graduate and undergraduate work.

18. A graduate student is expected to complete requirements for the degree no later than eight years after beginning course work. In cases of hardship the time limit may be extended to ten years with the approval of the Graduate Council.

SEMINAR REQUIREMENTS

Seminars or research courses are required of graduate students. Two types of seminar are provided: (1) for graduate students who prepare a Master's thesis and (2) for students who do not prepare a thesis.

THE THESIS

The thesis should show, among other things, the following characteristics: (a) ability of the candidate to work independently on an approved problem; (b) a reasonable familiarity with the literature of the field of specialization; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

The thesis must conform to regulations approved by the Graduate Council for writing theses. Two typewritten copies of the thesis must be filed in the College Library at least one week before the degree is conferred.

EXAMINATIONS

Before the graduate student can become a candidate for the Master's degree he must take a preliminary or qualifying examination. This examination is given each semester and each summer term. At least one-half of the work required for the degree must be completed after the qualifying examination.

The graduate student shall, upon official notification, pass an oral and/or written examination on his major, his minor fields, and his thesis.

APPLICATION FOR DEGREE

A student planning to receive the Master's degree in June should file application before the end of the first semester. August candidates should file application not later than the beginning of the second semester. Applications should be filed in the office of the Associate Dean in charge of Graduate Studies. Fees are to be paid at the Business Office and receipts presented in the office of the Associate Dean in charge of Graduate Studies.

CURRICULA

The institution has worked out specific curricula for the following certificates: Standard Elementary Certificate, Standard High School Certificate, Provisional Certificate for Principalship, Provisional Certificate for Supervisor, Provisional Certificate for Superintendent, and Provisional Certificate for Guidance Counselor. Elementary and secondary teachers may take work leading to Rank I.

Information concerning these curricula may be obtained from the Associate Dean of Instruction in charge of Graduate Studies.

CERTIFICATION AT THE GRADUATE LEVEL

STANDARD ELEMENTARY CERTIFICATE

The Standard Elementary Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of elementary teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school, as prescribed.

The curriculum, which is to be approved by the State Board of Education, leading to the Standard Elementary Certificate shall be based upon the following:

- a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.
- b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.
- c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.
- d. At least 12 semester hours of the total hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the fields of study required in general education and/or in subject matter courses used in partial fulfillment of the four-year elementary curriculum for elementary certification.

The Standard Elementary Certificate may be extended for life upon three years of successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

STANDARD HIGH SCHOOL CERTIFICATE

The Standard High School Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of high school teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school as prescribed.

The curriculum leading to the Standard Secondary Certificate shall be based upon the following:

- a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.
- b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.
- c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.
- d. At least 12 of the 30 semester hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the general education courses and from the list of subjects in which majors and/or minors may be completed on the undergraduate level and used in partial fulfillment of requirements for the bachelor's degree and the Provisional High School Certificate.

The Standard High School Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

CURRICULA FOR SCHOOL LEADERS

(Administrators, Supervisors)

Eastern offers curricula leading to the Provisional Certificate for School Leaders (principals, supervisors, and superintendents). For each of the Provisional Certificates the applicant must have completed a curriculum leading to the Master's degree. In the case of the principal and supervisor three years of successful teaching experience or the equivalent are required. For the superintendent four years of successful teaching or administrative experience or the equivalent are required.

CURRICULUM FOR GUIDANCE COUNSELORS

Eastern offers a curriculum leading to the Provisional Certificate for Guidance Counselor. The Master's degree is required for this certificate. The Provisional Certificate for Guidance Counselor shall be valid for a period of ten years and renewable each ten-year period on the basis of three years of experience as a guidance counselor. The applicant must have had three years of successful teaching experience or two years of teaching experience and one year of employment in fields other than teaching.

Some courses numbered in the 300's and most courses numbered in the 400's from each academic area and appearing in the General Catalogue are open to graduate students. They must be recommended by the student's Advisor and approved by the Associate Dean in charge of Graduate Studies.

GRADUATE COURSES OF STUDY

ART

GRADUATE DIVISION COURSES

Art 501. Art Appreciation: Great Periods and Their Influences. **Three hours.**

Prerequisite: Six hours in Art.

A course for graduate students who want to pursue art study as it is applied to the examination of the arts and ideas of great periods of development in the Western world.

Art 502. The Arts Program in the Public School. **Three hours.**

Prerequisite: Six hours in Art.

A study of the origin, trends, philosophy, and current practices in the art programs of the public schools. Types of programs in the elementary and secondary school will be considered and evaluated. Special attention will be given to program planning, selection and procurement of materials and art room facilities, preparation of teaching personnel, and in-service workshops.

BIOLOGY

GRADUATE DIVISION COURSES

Biology 501. Advanced Botany I. **Three hours.**

Individual study in one or two fields of botany selected to meet the specific needs of the student. Topics may be selected from such areas as anatomy, physiology, taxonomy, mycology, morphology, and ecology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 502. Advanced Botany II. **Three hours.**

A continuation of Biology 501.

Biology 503. Advanced Zoology I. **Three hours.**

Individual study in one or two fields of zoology selected to meet the specific needs of the student. Topics may be selected from such areas as morphology, physiology, taxonomy, ecology, invertebrate zoology, anatomy, and embryology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 504. Advanced Zoology II. **Three hours.**

A continuation of Biology 503.

Biology 505. Principles of Biology I. **Three hours.**

A study of the basic principles of biology and the history of their development. Included may be such topics as the cell theory, evolution, anthropology, inheritance, conservation, alternation of generations, ontogeny, life, classical experiments, economics and philosophy. Three lecture-discussion hours.

Biology 506. Principles of Biology II. **Three hours.**

A continuation of Biology 505.

Biology 511. Biology for Elementary Teachers. **Three hours.**

Experiments and demonstrations essential to the teaching of biological concepts of science in grades 1 through 6. Six discussion-laboratory hours.

COMMERCE

GRADUATE DIVISION COURSES

Commerce 500. Problems in Consumer Economics. Three hours.

An advanced treatment of some of the problems in the area of consumer economics. The place of consumption in economic theory; the institutional background of consumer habits; sources of information on consumption; government regulation of consumer standards; intelligent consumer choices; savings as part of the family spending; investments, estate planning and wills; consumer credit; the consumer in taxes; etc.

Commerce 501. (Formerly Commerce 480.) Contemporary Economic Problems. Three hours.

This course will consider such goals of society as economic growth, economic stability, economic security, economic freedom, etc. The problems-approach method will be utilized. Student participation is expected and an attempt will be made to get the student to see how he is affected by these various problems. Some previous work in economics is desirable but not required. This is a general education course for those not majoring in Commerce or Economics.

Commerce 510. (Formerly Commerce 50.) History of Economic Thought. Three hours.

In this course a survey of economic thought and doctrine from the ancient period to the end of the classical period will be made.

Commerce 511. (Formerly Commerce 51.) Economic Thought Since the Austrian School. Three hours.

This is a continuation of Commerce 510. The chief economical doctrines since the Austrian school will be studied.

Commerce 512. Special Problems in Business Law. Two hours.

Commerce 513. Special Problems in Business Law. Two hours.

Commerce 514. Special Problems in Public Finance and Taxation. Two hours.

Commerce 515. Special Problems in Public Finance and Taxation. Two hours.

Commerce 550. Economics Seminar. Two hours.

A course designed for those students engaged in an intensive study and analysis of economic problems.

Commerce 551. Economics Seminar. Two hours.

A continuation of Commerce 550.

Commerce 561. Improvement of Instruction in Bookkeeping and General Business. Two hours.

Commerce 562. Improvement of Instruction in the Skill Subjects. Two hours.

ECONOMICS

GRADUATE DIVISION COURSES

Economics 500. Problems in Consumer Economics. Three hours.
For course description see Commerce 500.

Economics 501. Contemporary Economic Problems. Three hours.
For course description see Commerce 501.

Economics 510. History of Economic Thought. Three hours.
For course description see Commerce 510.

Economics 511. Economic Thought Since the Austrian School. Three hours.
For course description see Commerce 511.

EDUCATION

GRADUATE DIVISION COURSES

Education 500. Introduction to Educational Administration. Three hours.

This course is designed as the first course to be taken by those who plan to complete all or a part of the leadership curricula. It deals with theories of administration and the practice of these theories at the system level and community level; it deals with the functions of those who work with learners, with teachers, with plant, with curriculum, and with other aspects of a functioning educational program at the local, state, or national level. The studies of administrative functions of school personnel will be examined in this course. Research in the administrative field by CPEA will make up a large part of the materials for the course.

Education 501. (Formerly Education 50a.) School Administration I. Two hours.

Federal relations to education; the state as a fundamental school unit; general school law and court decisions relating to public education; powers and duties of state school officials; work of the state department of education; local units of school control; power and duties of local school officials; administration of adult education and other types of special education; the administration of teacher personnel; public-school relations; closer school-community relationships; principles of good school-community relationships; education and the community; non-government controls of education; school insurance administration; the non-public or protest school; community administrative structure; principles of operation.

Education 502. (Formerly Education 50b.) School Administration II. Two hours.

Administration of pupil accounting; the school census; attendance; records and reports; organization and administration of the supervisory program; curriculum administration; selection of school sites; building plans and designs; school building management; operation and maintenance of the school plant; selection and use of equipment and supplies; organization of school libraries; auxiliary agencies; administration of health education; school consolidation and transportation; office administration; classification and progress of pupils; administration of pupil guidance; appraisal; interpretation; advanced education; major steps in building a school.

Education 503. (Formerly Education 50c.) School Administration III. Two hours.

The background of school finance; the school finance situation; the control of public education; tests of wholesomeness of fiscal policy; economic effects of school finance; cost and character of education; a conceptual basis for local financial administration; budgeting school funds; auditing school accounts; school revenue-sources and management; financial accounting; cost analysis; financial statements and reports; salaries of school employees; school supply management; procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency; management of school property; financing capital outlay; the American state and central support of public education; the foundation program; designing programs for marshaling effective support for an adequate foundation program-equalization; designing programs for marshaling effective support for vigorous local autonomy; progress and compromise; designing fiscal programs to establish the desired balance of controls between central and local agencies; measures of educational need for use in state programs; measures of relative ability for use in evaluating fiscal policy and in designing state programs; state educational endowment; the state and taxation; federal financing of education.

Education 504a. Problems in Educational Administration. One hour.

This course is designed for advanced graduate students who desire to work on special problems according to their individual needs. Students enrolling for this course should have the approval of the Head of the Department of Education and the Dean of the College.

Education 504b. Problems in Educational Administration. One hour.
A continuation of Education 504a.

Education 504c. Problems in Educational Administration. One hour.
A continuation of Education 504b.

Education 505. Kentucky School Law. Two hours.

This course will be primarily concerned with developing knowledge and understanding of: The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, school buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

Education 506. Problems in Public School Finance. Two hours.
Prerequisite: Education 503.

This course is designed primarily for in-service students. A few selected problems will be studied rather carefully.

Education 510. (Formerly Education 51a and 51c.) Curriculum Problems and the Improvement of Instruction in Elementary Schools. Three hours.

Meaning and function of education; underlying principles developed for curriculum use and curriculum revision; interpretation of the learning experiences (school subjects in light of the meaning and function of education); study of concrete materials and classroom procedure with a representative range of practical problems in various subject areas; types of organization used in modern instruction; how children learn; various educational agencies in the community; how the school may be made a real community center; laboratory study and field trips.

Education 511. General Supervision. Three hours.

Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; locating and using community resources and other aids available to public school teachers; techniques for developing desirable professional relations; problems of in-service education for teachers. Each member of the group will plan a supervisory program for a local school system in Kentucky as a special project in the course.

Education 512. Curriculum Development. Two hours.

This course is designed for graduate students who desire to make a critical study of the principles and techniques of curriculum making in public schools. Recent curriculum developments are evaluated and effective curriculum programs are considered. Some attention is given to the recent professional literature on curriculum development and trends.

Education 513. Principles of Guidance. Two hours.

This course includes selection, evaluation, and usage of group guidance methods; emphasis will be placed upon appropriate methods and materials for specific situations in group guidance programs. This course will also deal with educational and occupational information. It will include a survey of pertinent educational and occupational material with emphasis being placed upon intensive and extensive use of these as they apply to secondary school students.

Education 515. (Formerly Education 52.) Human Development and the Psychology of Learning. Three hours.

Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning; evaluation of development and learning.

Education 516. Measurement and Guidance. Three hours.

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, \$2.00.

Education 517. Individual Intelligence Testing. Two hours.

Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer test to several children or adolescents and to interpret test findings.

Education 518. Practicum in Counseling. Two hours.

This course is designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors, and administrators.

Education 519. Clinical Study of Exceptional Children. Two hours.

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

Education 521. (Formerly Education 53.) Audio-visual Education. Three hours.

Meaning and value of audio-visual aids; fundamental principles developed for the selection, organization, and utilization of audio-visual materials; detailed study of various sources of visual aids; formation of standards for evaluation; laboratory study and field trips. Special attention is given to problems of organizing these materials in a school.

Education 531. (Formerly Education 55a.) History of Education. Two hours.

Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece, Rome, and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influence of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart.

Education 532. (Formerly Education 55b.) History of Education in the United States. Two hours.

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable educational reorganizations; the influence of John Dewey; brief study of the development of public education in Kentucky.

Education 536. (Formerly Education 55c.) Philosophy of Education. Two hours.

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relation to the individual and the social order; education and democracy; social progress and social control; the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

Education 537. (Formerly Education 55d.) Comparative Education. Two hours.
Examination, comparison, and discussion of the background of conditions and theories which have resulted in the present practices in education in the world today with special emphasis upon the school systems and practices in Germany, France, England, Russia, Denmark, Sweden, China, Australia, Canada, Mexico, and representative South American countries. Comparisons will be made between education in America and in foreign countries.

Education 538. Modern Trends in Educational Philosophy. Two hours.
Not open to students who have not had Education 536 or its equivalent.
A study of alternative philosophies and their implications for current educational theory and practice.

Education 542. (Formerly Education 56.) Applied Statistical Methods. Two hours.

Prerequisite: Education 368.
Measurements in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypothesis; prediction and errors of prediction; correlation methods; reliability and validity of tests.

Education 550. (Formerly Education 57 and 57r.) Educational Sociology. Three hours.

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

Education 562. The Role of the Principal. Three hours.
Nature of demands made on school principals; organization of duties for effective management; planning the year's work; responsibilities for schedule-making; guidance functions of the principal; projecting a guidance organization; office duties of the principal; duties pertaining to records and reports; organizing the program of student activities; administering the program of student activities; duties pertaining to the need of youth; adjusting school to pupil needs; evaluating the progress of pupils; the administration of teacher personnel; duties pertaining to supervision; educational diagnosis and remedial treatment; the improvement of curriculum materials; the use of tests in instruction; the school library; business duties of principals; administering the school plant; the principal in the community; and the future of the school principalship.

Education 563. (Formerly Education 58b and 58c.) Improvement of Instruction in the Secondary School. Three hours.

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

Education 565. Investigations in Reading. Two hours.
This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of reading in the elementary school.

Education 566. Investigations in Mathematics. Two hours.
This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of mathematics in the elementary school.

Education 567. Investigations in Social Studies. Two hours.
This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of social studies in the elementary school.

Education 569. (Formerly Education 59d.) Research in Education. Two hours.
Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering educational problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.

Required of all graduate students who do not prepare a thesis.

Education 570. Seminar. One hour.

Education 571. Seminar. One hour.

Education 572. Seminar. One hour.

The Seminar is designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, Education 569, Research in Education, is required.

Education 580. Organization and Supervision of Student Teaching. Three hours.

Prerequisite: Teaching experience.

A course designed for teachers preparing to become supervising teachers in the elementary and secondary schools. Emphasis will be placed upon supervision of student teachers, supervision of instruction, and improvement of instruction. The course gives emphasis to the responsibility of the supervising teacher to administrators, to student teachers, and to the boys and girls. Intensive study will be made in the areas of teaching, classroom management, planning instruction, conferences, ethics, and evaluation of the student teaching program.

Education 581. Leadership for Helping Teachers in Studying Children. Two hours.

Prerequisite: For those persons who plan to serve as leaders in an in-service education program designed to increase teachers' understanding of pupils. The course is open to people who have the master's degree.

By using mimeographed records, the participants gain skill in relating factors and processes revealed in the records to the behavior of a child. Attention is given to methods of observation, writing an anecdotal record, selection of significant data, home visitation, and interpretation. Special emphasis is placed on plans for leading teachers in a systematic study designed to understand the behavior of pupils.

ENGLISH

GRADUATE DIVISION COURSES

English 501. Advanced Composition III. Three hours.

For graduate students who have not had English 301.

Much writing of many kinds and forms, principally expository or utilitarian in character rather than belles-lettres; study of the principles of such writing and of well-written examples of the types being written; as much attention as is required to matters of style and correctness, it being imperative that graduate students possess or attain a reasonable mastery of these.

English 511. The Development of English Drama to 1642. Three hours.

Medieval liturgical drama; early miracle plays and the guild cycles; morality plays and interludes; early Tudor Renaissance drama; the development of the theater; companies of actors; Marlowe, Lyly, Greene, Peale, and Nashe; Edward De Vere and the Shakespearian drama; Ben Johnson and the Stuart dramatists.

English 515. (Formerly English 52.) English Criticism. Three hours.

A study of the development of English criticism from its beginnings to the end of the nineteenth century. Foreign influences in English criticism; changing conceptions of the criteria of criticism; the great critics and their works.

English 565. (Formerly English 50 and 51.) Problems in High School English. Three hours.

A course for graduate students who wish to work on individual problems under the direction of an instructor. Much reading and research are done. Various problems are analyzed and discussed. Many references are used. Special papers are prepared.

GEOGRAPHY

GRADUATE DIVISION COURSES

Geography 500. Historical Geography. Three hours.

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

The geography of the world and the United States in the past. The relations between earth's conditions and resources on the one hand, and the historical development of nations on the other; the adjustments of nations and peoples to varied environments; the evolution of the environmental relationships of the people in selected areas of the world; evolutionary geography.

Geography 501. Geography in Education. Three hours.

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of geography in the present day school systems of the world from the elementary school to the university; examination and comparison of courses of study, objectives, outlines, offerings and problems; evaluation of departments, geographic literature, equipment, books, magazines, and other materials; the place of geography in the service of the nations.

HISTORY

GRADUATE DIVISION COURSES

History 504. (Formerly History 449.) History as a Social Science. Three hours.

The scientific approach to social problems and their historical interpretation; an analysis of the economic, social, intellectual, and political backgrounds of contemporary civilization.

History 505. Problems in American History. Three hours.

Prerequisite: Consent of instructor.

An examination of some of the basic controversial aspects of the development of the American people and their culture. Relevant areas might include Protestantism, capitalism, agrarianism, sectionalism, liberalism, internationalism.

INDUSTRIAL ARTS

GRADUATE DIVISION COURSES

Industrial Arts 562. Philosophy of the Practical Arts and Vocational Education. Three hours.

Background, purpose, and relationship of the practical arts and vocational education; relationship of both to total program of education; current philosophies of the practical arts and vocational education.

Industrial Arts 564. Special Problems in Industrial Arts. One to six hours.

Problems of particular value to the teacher in the field, both of a practical and of a research nature will be pursued by the student and developed through conferences and activities directed by the staff.

Industrial Arts 565. Curriculum Practices and Trends in Industrial Arts. Three hours.

Current concepts and trends in industrial arts; principles underlying curriculum construction and development; long range planning for improvement of programs.

Industrial Arts 566. Seminar in Industrial Arts. Three hours.

A course designed for the graduate student in industrial arts. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

Industrial Arts 567. Thesis Research in Industrial Arts. Six hours.

Students preparing theses are expected to register for three hours of thesis research in each of two semesters.

Industrial Arts 568. Advanced Design. Three hours.

An advanced course in design emphasizing problem-solving and experimentation with industrial arts media.

MATHEMATICS

GRADUATE DIVISION COURSES

Mathematics 501. Foundations of Elementary School Mathematics. Three hours.

A course designed exclusively for elementary school teachers working toward the Master of Arts in Education degree. However, credit may not be earned by those who already have credit for Mathematics 201 and 202.

Counting and numeration; fundamental concepts of the whole, rational and real number systems; variables and conditions; logic; non-metric geometry; measurement; congruence; parallelism; area and volume.

Mathematics 507. Foundations of Secondary School Mathematics I. Three hours.

A course designed exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: Number and numeration; fundamental number theory; sets, relations, and functions; algebraic systems; consideration of these topics as they are likely to affect the modern high school mathematics program.

Mathematics 508. Foundations of Secondary School Mathematics II. Three hours.

A course designed, in sequence with Mathematics 507, exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: History and development of geometry; logic and the nature of proof; foundations of synthetic and analytic Euclidean geometry; discovery of non-Euclidean geometries; vector approaches to the study of geometry; consideration of these topics as they are likely to affect the mathematics program in the modern high school.

MUSIC

GRADUATE DIVISION COURSES

²Music 512. Piano. One to four hours.

Prerequisite: Music 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

This is a continuation on the graduate level, requiring more work of better quality than is required on the undergraduate level.

²Music 513. Pedagogy of Piano. Two hours.

Prerequisite: Same as for Music 512.

This course is designed to enlarge the teaching repertoire of the graduate piano student through detailed study of modern teaching methods and techniques.

²Music 522. Voice. One to four hours.

Prerequisite: Music 322.

This course is designed to enlarge the teaching repertoire of the graduate voice student. Emphasis will be placed on cantatas, oratorios, and operas. The student will be given an opportunity to teach voice under supervision.

²Music 523. Pedagogy of Voice. Two hours.

This course is designed to give the student a thorough background in repertoire for voice, and a knowledge and application of teaching procedures. A notebook and term paper are required.

²Music 530. Problems and Research in the Class Teaching of Strings. Three hours.

A graduate course in the problems and methods of the teaching of strings in classes, with consideration of the homogeneous and the heterogeneous class, research in available materials, with attention to their actual success in class teaching.

²Music 531. Curriculum Practices and Trends in the Teaching of Stringed Instruments. Three hours.

A course designed for the graduate music student whose major applied interest is in strings, with attention to the development of teaching procedures for the various instruments particularly as their problems become more divergent.

²Music 532. Violin. One to four hours.

Prerequisite: Music 332. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

²Music 533. Special Problems in String Teaching. One to three hours.

²Music 536. Violoncello. One to four hours.

²Music 542. Organ. One to four hours.

²Music 552. Wind Instrument. One to four hours.

Continuation of Music 352 on the graduate level, requiring more work than was required on the undergraduate level.

²Music 553. Pedagogy of Wind Instruments. Two hours.

²Music 581. Acoustics, Construction and Development of Musical Instruments. Three hours.

Prerequisite: Music 350-351 or the equivalent.

A graduate research course, investigating the historical development, the construction, the acoustical properties of wind instruments. The student is expected to complete three research projects each semester.

² During semesters when Music 181, 182, 281, 282, 381, 382, 383, 481, 482, 483, 191, 192, 291, 292, 461, 462, 533, 553, 581 are not offered as regular classes, they may be taken as individual instruction, under the same arrangements as instruction in Applied Music.

² Applied music will be accepted in satisfaction of graduate non-professional subject matter and electives, upon the recommendation of advisor and Dean.

NONSPECIALIZED SCIENCE

GRADUATE DIVISION COURSES

Science 500. The Impact of Science on Society. **Three hours.**

The effects of various scientific theories and discoveries on man's thinking and modes of living. Some of the works of such men as Aristotle, Copernicus, Kepler, Galileo, Newton, Stahl, Lavoisier, Black, Faraday, Joule, Darwin, Mendel, Pasteur, Jeans, The Curies, Planck, Einstein, will be studied. The greater emphasis will be placed on the 19th and 20th centuries.

PSYCHOLOGY

GRADUATE DIVISION COURSES

Psychology 500. Social Psychology. **Three hours.**

Prerequisite: Psychology 211.

A study of social phenomena in terms of the original and acquired reaction systems of the individual. Special consideration given to group behavior, role, status, attitudes, prejudice, crowds, mob behavior, propaganda, and nationalism.

PHYSICAL EDUCATION

GRADUATE DIVISION COURSES

Physical Education 550. Curriculum and Facilities in Physical Education. **Three hours.**

Students will study problems related to school construction and program planning in physical education. Each student will complete a project on some phase of physical education curriculum or facility.

Physical Education 562. Adapted Physical Education. **Three hours.**

Basic principles necessary in developing and conducting a physical education program for handicapped students.

Physical Education 569. Organization and Administration of Athletics. **Three hours.**

This course deals with the organization of high school and college athletics with reference to national, state, and local control. It considers staff, program, budget, health and safety, insurance, facilities, and other phases of administration.

Physical Education 580. Interpretation of Data in Physical Education. **Three hours.**

Methods and techniques in statistics and their interpretation as related to physical education activities will be studied. Students will be assigned statistical problems with physical education data.

Physical Education 590. Research Techniques in Physical Education. **Three hours.**

Proper techniques of research will be studied in this course. Students will be introduced to the horizontal analysis technique of outlining a study. A research project will be expected of each student.

Physical Education 591. Independent Problems in Physical Education. **Three hours.**

The student will solve an independent problem in physical education. The solution of this problem will be made by using proper research techniques and through scheduled conferences with an assigned member of the physical education staff.

Mr.
Mrs.
Name in full: Miss _____
(Last) (First) (Middle)

 (city) (zone no.) (state)

Address

Type and State

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